FIG. 1

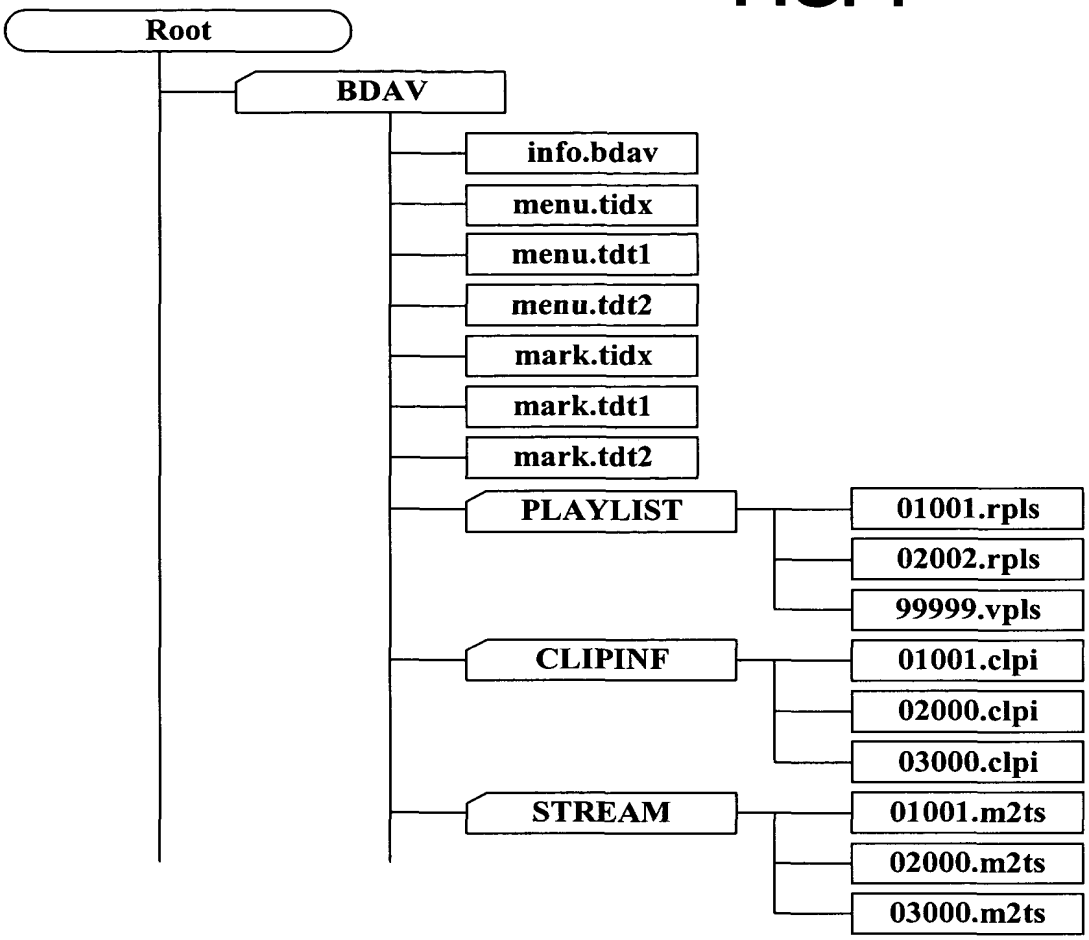

Root
BDAV
info.bdav
menu.tidx
menu.tdt1
menu.tdt2
mark.tidx
mark.tdt1
mark.tdt2
PLAYLIST
01001.rpls
02002.rpls
99999.vpls
CLIPINF
01001.clpi
02000.clpi
03000.clpi
STREAM
01001.m2ts
02000.m2ts
03000.m2ts

FIG. 2

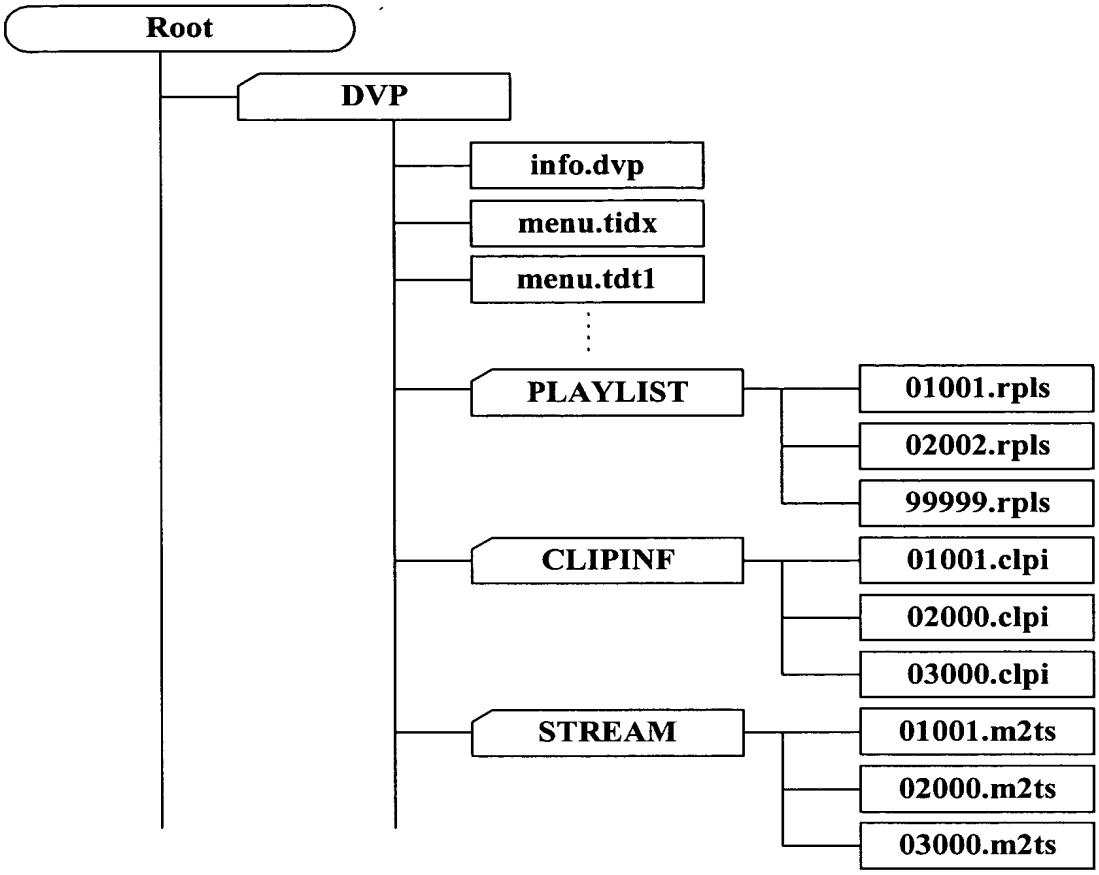

Root
DVP
info.dvp
menu.tidx
menu.tdt1
PLAYLIST
01001.rpls
02002.rpls
99999.rpls
CLIPINF
01001.clpi
02000.clpi
03000.clpi
STREAM
01001.m2ts
02000.m2ts
03000.m2ts

FIG. 3

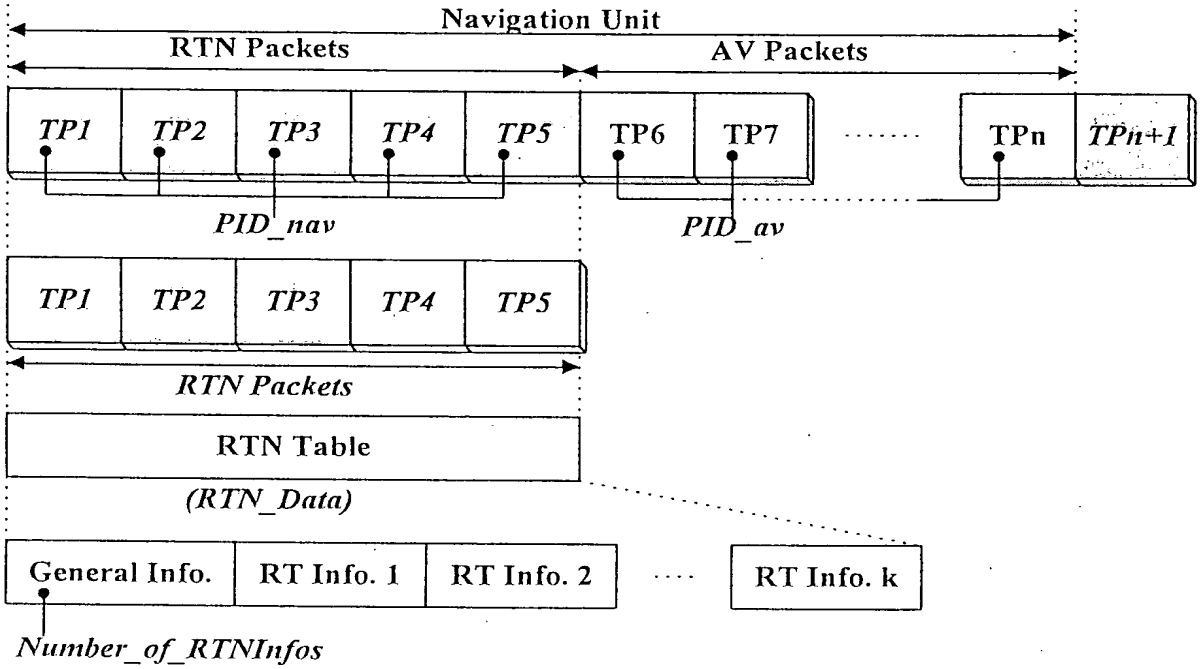

Navigation Unit
RTN Packets
AV Packets
TP1
TP2
TP3
TP4
TP5
TP6
TP7
TPn
TPn+1
PID_nav
PID_av
TP1
TP2
TP3
TP4
TP5
RTN Packets
RTN Table
(RTN_Data)
General Info.
RT Info. 1
RT Info. 2
RT Info. k
Number_of_RTNInfos

FIG. 4

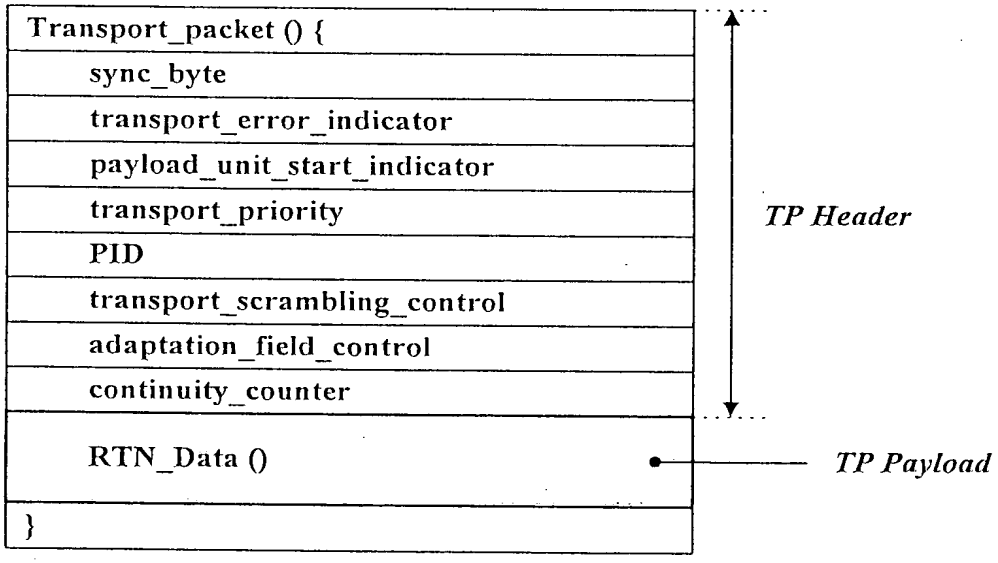

Transport_packet () {
sync_byte
transport_error_indicator
payload_unit_start_indicator
transport_priority
PID
transport_scrambling_control
adaptation_field_control
continuity_counter
RTN_Data ()
}
TP Header
TP Payload

FIG. 5

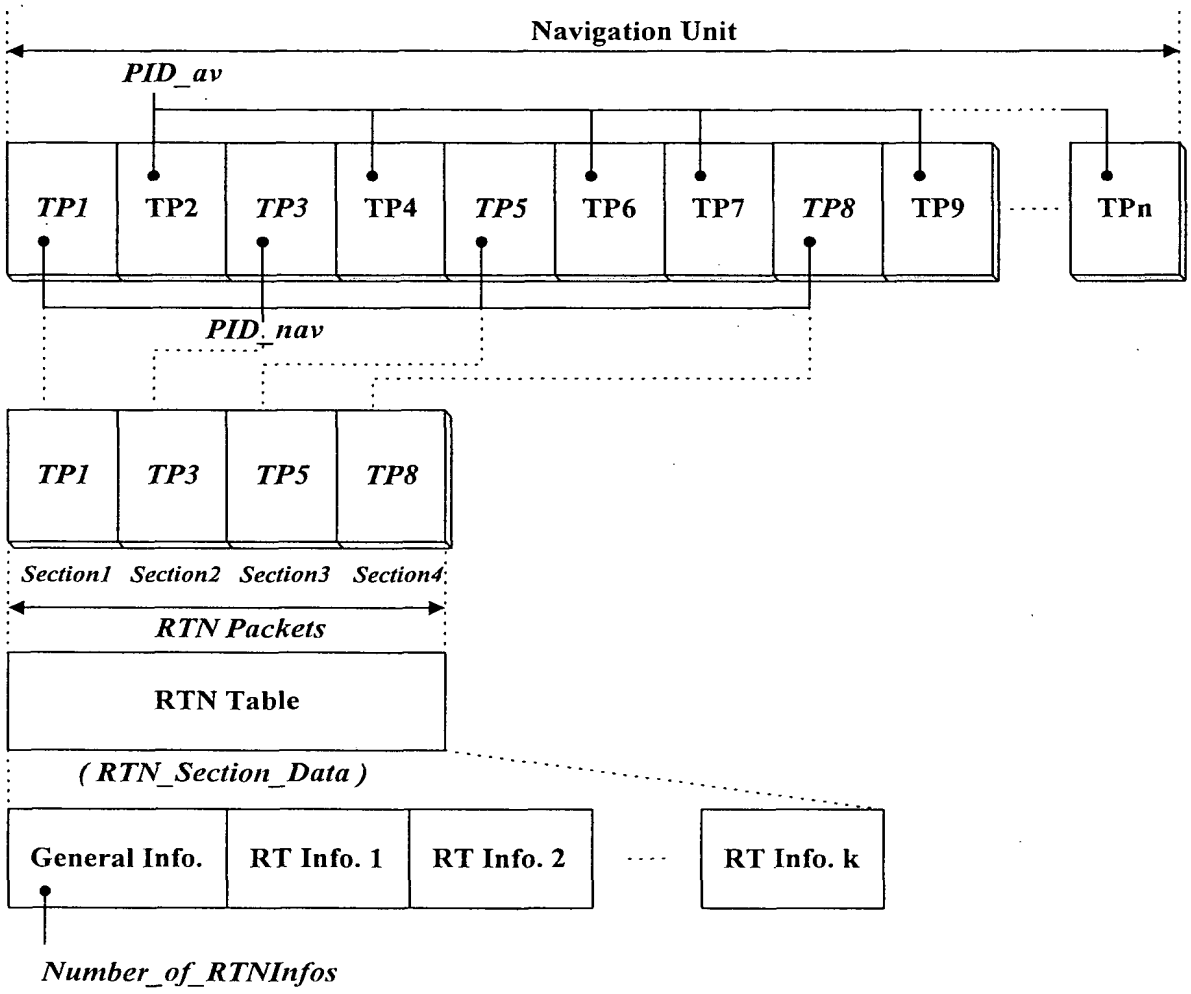

Navigation Unit
PID_av
TP1
TP2
TP3
TP4
TP5
TP6
TP7
TP8
TP9
TPn
PID_nav
TP1
TP3
TP5
TP8
Section1
Section2
Section3
Section4
RTN Packets
RTN Table
(RTN_Section_Data)
General Info.
RT Info. 1
RT Info. 2
RT Info. k
Number_of_RTNInfos

FIG. 6

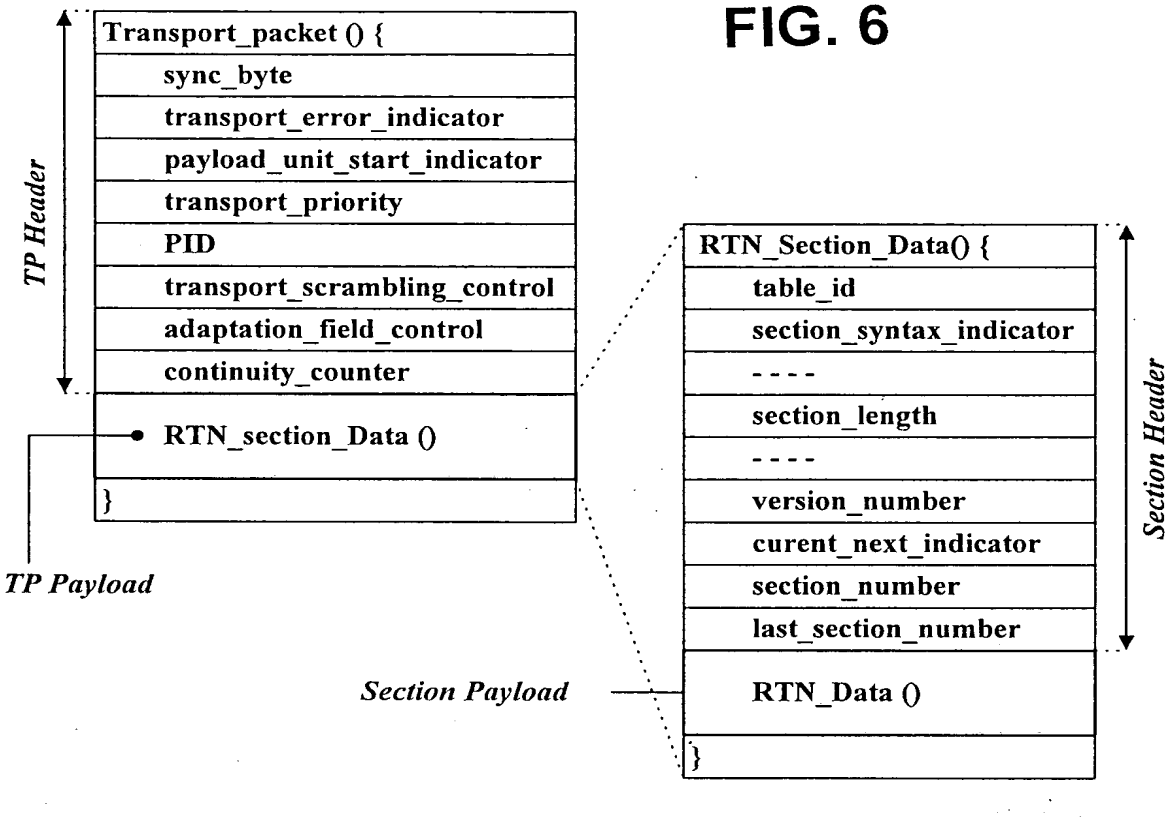

Transport_packet () {
sync_byte
transport_error_indicator
payload_unit_start_indicator
transport_priority
PID
transport_scrambling_control
adaptation_field_control
continuity_counter
RTN_section_Data ()
}
TP Header
TP Payload
RTN_Section_Data() {
table_id
section_syntax_indicator
- - - -
section_length
- - - -
version_number
curent_next_indicator
section_number
last_section_number
RTN_Data ()
}
Section Header
Section Payload

FIG. 7

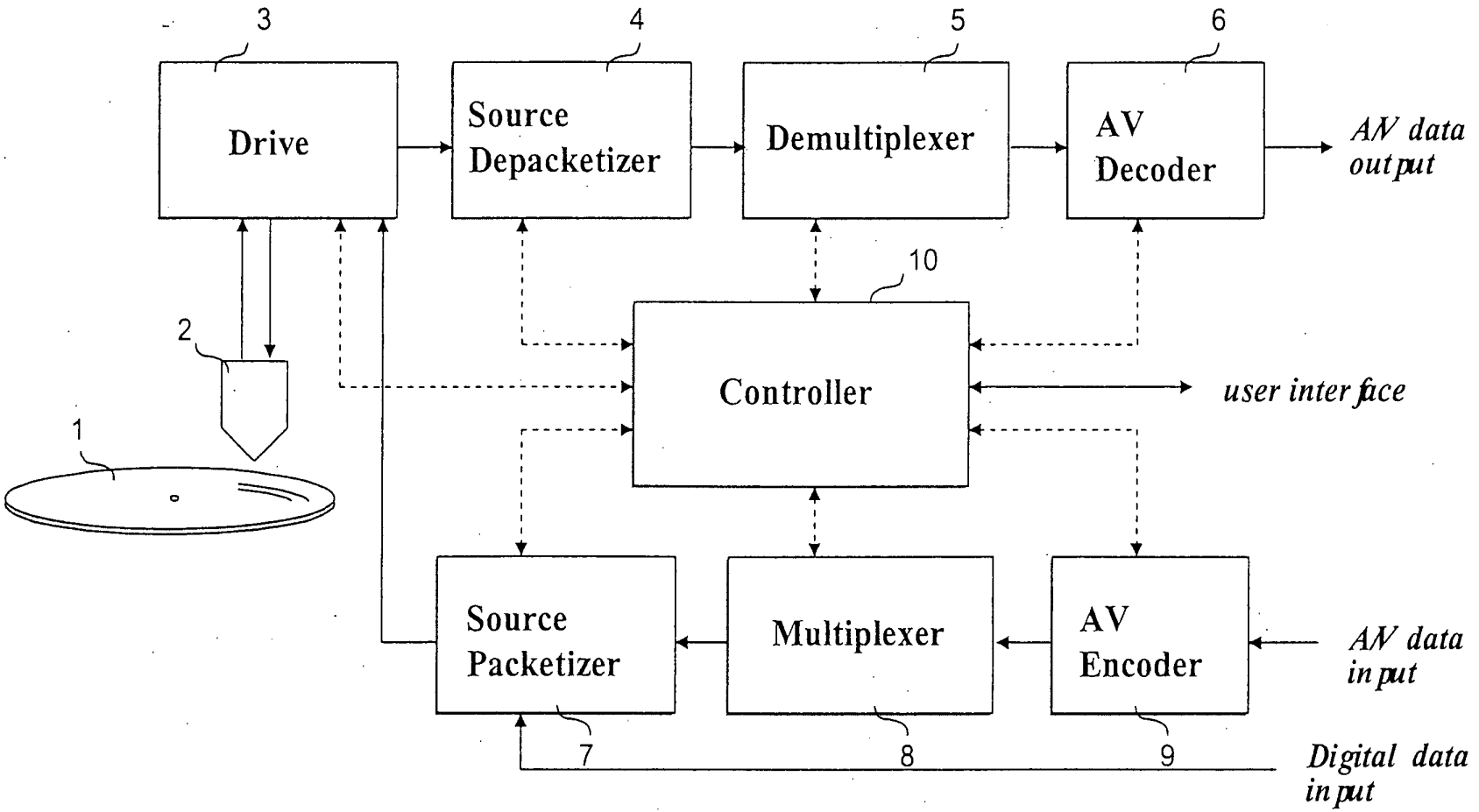
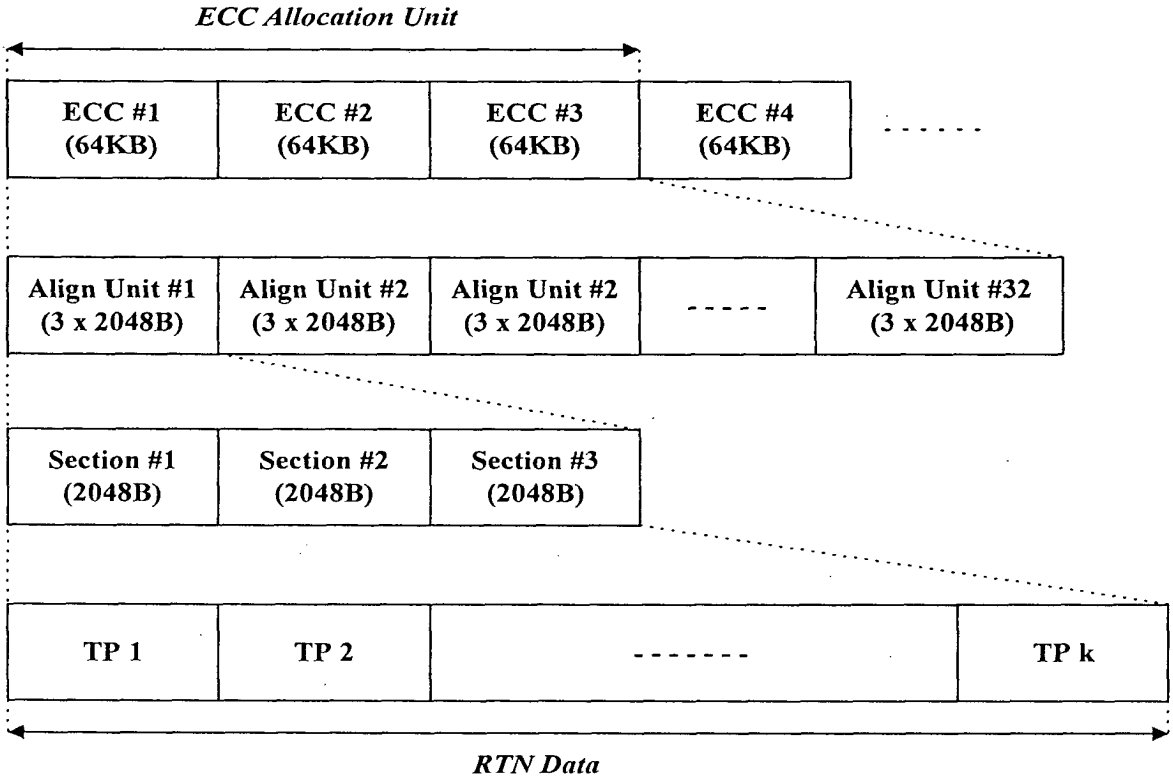

3
4
5
6
Drive
Source Depacketizer
Demultiplexer
AV Decoder
AV data output
10
2
Controller
user interface
1
Source Packetizer
Multiplexer
AV Encoder
AV data input
7
8
9
Digital data input

FIG. 8


ECC Allocation Unit
ECC #1 (64KB)
ECC #2 (64KB)
ECC #3 (64KB)
ECC #4 (64KB)
Align Unit #1 (3 x 2048B)
Align Unit #2 (3 x 2048B)
Align Unit #2 (3 x 2048B)
Align Unit #32 (3 x 2048B)
Section #1 (2048B)
Section #2 (2048B)
Section #3 (2048B)
TP 1
TP 2
TP k
RTN Data